



**PRELIMINARY AMENDMENT**  
U.S. Application No. 10/587,303

**Q96164**

**AMENDMENTS TO THE SPECIFICATION**

**Amend the specification by adding before the first line the sentence:**

This application claims priority from PCT Application No. PCT/JP2005/001007, filed January 26, 2005, and from Japanese Patent Application No. 2004-018512, filed January 27, 2004, which applications are incorporated herein by reference.

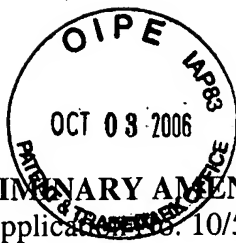
**Please delete the paragraph beginning at page 1, line 11.**

**Please replace the paragraph beginning at page 1, line 15, with the following amended paragraph:**

In recent years, the DMD measurement technique has been standardized as a method for evaluating a broadband graded-index (GI) optical fiber. With this measurement, a broadband GI optical fiber that can propagate over a distance of 300 m at 10 Gbps can be assured, as stipulated by the International Electrotechnical Commission (IEC) standard.

**Please replace the paragraph beginning at page 1, line 19, with the following amended paragraph:**

For this reason, performing a DMD measurement with high accuracy is very important from the standpoint of quality assurance. The IEC measurement standard stipulates the measurement accuracy as follows: a variation in the measurement shall be 5% or less of the measured DMD value.



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**Please replace the paragraph beginning at page 2, line 13, with the following amended paragraph:**

~~However, the above listed Non-patent Documents 1-3 and 6 do~~ The conventional art does not describe any specific methods for carrying out DMD measurements with high accuracy. The present inventors actually carried out DMD measurements and studied whether or not any problems arose in terms of the measurement accuracy.

**Please replace the paragraph beginning at page 2, line 17, with the following amended paragraph:**

As a result, a problem was found in that a conventional DMD measurement cannot be carried out accurately because the refractive index and the length of an optical fiber are changed due to a change in temperature of the optical fiber during the DMD measurement.

**Please replace the present Abstract of the Disclosure with the following amended**

**Abstract of the Disclosure:**

A method for measuring a multimode optical fiber ~~comprises~~includes: monitoring a temperature change within a measurement time in a DMD measurement of the multimode optical fiber, ~~wherein~~where the DMD measurement is carried out in an environment in which a magnitude of temperature change is controlled.